

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue P998900 Number:

Product: Pyruvic Acid Sodium Salt

Structure:

Me O ONa

Lot 2-MJS-89-1

Shipping This Product Is Stable To Be **Condition:** Shipped At Room Temperature

CAS 113-24-6

Synonym: 2-Oxopropanoic Acid Sodium Salt; Sodium

Pyruvate; Sodium a-Ketopropionate;

Molecular Formula:

C₃H₃NaO₃

Molecular weight:

110.04

Source of Product:

N/A

Solubility:

Water

Purity: 98%

Storage

Condition: 20°C

2. Warning

Warning 1: Not Determined Warning 2: Warning 3:

3. Analytical Information

Elemental Analysis Conforms

Additional Information:

Tests: Specifications: Results:

Appearance White to Off-White Solid Off-White Solid

NMR Conforms to Structure Conforms

MS Conforms to Structure Conforms

HPLC Purity >95% 97.55% (205 nm)

TLC Conditions: C18; Isopropanol : Ammonium Hydroxide = 10 : 0.1;

Visualized with KMnO4; Single Spot, Rf = 0.25.Elemental Analysis:

%C: 32.24, %H: 2.32

(Theoretical) %C: 32.74, %H: 2.75

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By Reviewed By C of A Approved Test Date Retest Date

Eric Beaton Toni Rantanen My Nguyen 1/8/2020 1/6/2027

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